PATENT COOPERATION TREATY

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INTERNATIONAL PRELIMINARY EXAMINATION REPORT

(PCT Article 36 and Rule 70)

Applicant's or agent's file reference	FOR FURTHER ACTION	ON See Notification of Transmittal of International Preliminary Examination Report (Form PCT/IPEA/416)			
PCT 21078Y	1 611 - 1-10 (3m) (m) 01	nth broar)	Priority date (day/month/year)		
International application No.	International filing date (day/mor	umyeur)	Thomas (may many)		
PCT/US03/10341	04 April 2003 (04.04.2003)		08 April 2002 (08.04.2002)		
International Patent Classification (IPC)	or national classification and He				
IPC(7): A61K 31/498; C07D 241/42. an	nd US Cl.: 514/249; 544/353.		·		
Applicant					
MERCK & CO., INC.					
Examining Authority and	nary examination report has been is transmitted to the applicant a	according to A	1000 50.		
2. This REPORT consists of a total of 3 sheets, including this cover sheet.					
This report is also accompanied by ANNEXES, i.e., sheets of the description, claims and/or drawings which have been amended and are the basis for this report and/or sheets containing rectifications made before this Authority (see Rule 70.16 and Section 607 of the Administrative Instructions under the PCT). These annexes consist of a total of sheets.					
These annexes consist of	a total of sheets.				
3. This report contains indic	cations relating to the following	items:			
I Basis of the re	I Basis of the report				
П Priority					
III Non-establishment of report with regard to novelty, inventive step and industrial applicability					
V Reasoned state applicability;	statement under Article 35(2) with regard to novelty, inventive step or industrial ty; citations and explanations supporting such statement				
VI Certain documents cited					
VII Certain defects in the international application					
VIII Certain observ	vations on the international app	lication			
The state demand	Da	te of completio	n of this report		
Date of submission of the demand					
20 October 2003 (20.10.2003)		04 December 2003 (04.12.2003)			
Name and mailing address of the IPE	A/US	thorized officer			
Mail Stop PCT, Attn: IPEA/US	VŁ.	Mithel	* Jankence for		
Commissioner for Patents P.O. Box 1450	1 En	nny Bernnardt			
Alexandria, Virginia 22313-145	0 Tel	ephone No. (70	3) 308-1235		
Facsimile No. (703) 305-3230 Form PCT/IPEA/409 (cover sheet)(July	(1998)				

INTERNATIONAL PRELIMINARY EXAMINATION REPORT

International application	No.
PCT/US03/10341	

I.	Basi	s of the report
1.	With	regard to the elements of the international application:*
	\boxtimes	the international application as originally filed.
	冈	the description:
	2_3	pages 1-72 as originally filed
		pages NONE, filed with the demand
		pages NONE, filed with the letter of
	\boxtimes	the claims:
		pages 73-93 , as originally filed
		pages NONE , as amended (together with any statement) under Article 19
		pages NONE, filed with the demand pages NONE, filed with the letter of
		the drawings:
		pages NONE , as originally filed
		pages NONE, filed with the demand pages NONE, filed with the letter of
	\boxtimes	the sequence listing part of the description:
		pages 1-4, as originally filed pages NONE, filed with the demand
		pages NONE, filed with the definant
2	337;+1	h regard to the language, all the elements marked above were available or furnished to this Authority in the
۷.	lang	uage in which the international application was filed, unless otherwise indicated under this item.
	Thes	se elements were available or furnished to this Authority in the following language which is:
		the language of a translation furnished for the purposes of international search (under Rule23.1(b)).
	H	the language of publication of the international application (under Rule 48.3(b)).
	H	the language of the translation furnished for the purposes of international preliminary examination(under Rules
		55.2 and/or 55.3).
2	337:4	h regard to any nucleotide and/or amino acid sequence disclosed in the international application, the
э.	inter	rational preliminary examination was carried out on the basis of the sequence listing:
	X	contained in the international application in printed form.
	X	filed together with the international application in computer readable form.
	鬥	furnished subsequently to this Authority in written form.
	H	furnished subsequently to this Authority in computer readable form.
	버	
	Ш	The statement that the subsequently furnished written sequence listing does not go beyond the disclosure in the international application as filed has been furnished.
	Ш	The statement that the information recorded in computer readable form is identical to the written sequence listing
		has been furnished.
4.		The amendments have resulted in the cancellation of:
		the description, pages NONE
		the claims, Nos. NONE
		the drawings, sheets/ fig NONE
5.	\Box	This report has been established as if (some of) the amendments had not been made, since they have been considered to go
٥.	لـــا	beyond the disclosure as filed, as indicated in the Supplemental Box (Rule 70.2(c)).**
*	Repla	cement sheets which have been furnished to the receiving Office in response to an invitation under Article 14 are referred to in
thi	s rend	ort as "originally filed" and are not annexed to this report since they do not contain amendments (Rules 70.16 and 70.17).
**	Any I	replacement sheet containing such amendments must be referred to under item 1 and annexed to this report.

INTERNATIONAL PRELIMINARY EXAMINATION REPORT

International application No. PCT/US03/10341

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V. Reasoned statement under Rule 66.2(a)(citations and explanations supporting su	ii) with regard ch statement	d to novelty,	, inventive step or	industrial applicability;
1. STATEMENT				2
Novelty (N)	Claims			YES
	Claims	NONE		NO
Inventive Step (IS)	Claims	1-25		YES
inventive Step (13)	Claims			NONO
				·
Industrial Applicability (IA)	Claims	1-25		YES
•	Claims	NONE		NO
Claims 1-25 meet the criteria set out in P matter claimed can be made or used in industry. D serine/threonine kinase inhibitory activity reported	escription states	compounds of	ossess industrial appli f invention are usefu 	cability because the subject I for treating cancers based on

Form PCT/IPEA/409 (Box V) (July 1998)